MEMORANDUM FOR: All NWS Regional Headquarters, Regional

Maintenance Specialists, Electronic Systems

Analysts, and Electronics Technicians [Engineering

Handbook (EHB)-13, Series II Distribution]

FROM: W/OPS1 - (Acting) Mark Paese

SUBJECT: Transmittal Memorandum for EHB-13, Series II

Issuance 02-12

1. <u>Material Transmitted</u>:

Engineering Handbook No. 13 Series II, Advanced Weather Interactive Processing System (AWIPS), Section 3.1, AWIPS Software Installation Instruction Note 29, AWIPS Release 5.2.1 Installation Instructions

2. <u>Summary</u>:

AWIPS Software Installation Instruction Note 29 provides installation instructions for Release 5.2.1.

3. <u>Effect on Other Instructions</u>:

File this note in EHB-13, Series II, section 3.1. Discard all previous software installation instructions in section 3.1.



AWIPS SOFTWARE INSTALLATION INSTRUCTION NOTE 29

(for Electronic Systems Analysts)

Maintenance, Logistics, & Acquisition Division

W/OPS12: FJZ

: Maintenance Release 5.2.1 Installation Kit SUBJECT

PURPOSE : To provide R5.2.1 software upgrade installation instructions and

information.

: All National Weather Service CONUS and OCONUS WFOs/RFCs and AFFECTED SITES

offices with WFO/RFC type AWIPS systems must install R5.2.1.

All sites with WFO type AWIPS systems **not** participating in the Rapid

Alpha Process (RAP) should not perform this upgrade until

Maintenance Release 5.2.1.1 is available.

PREINSTALLATION:

At a minimum, R5.1.2.3 must be installed. CONUS and OCONUS WFOs and offices with WFO type systems **must** install R5.1.2 IFPS REQUIREMENTS

before installing R5.2.1. According to policy, all sites must install EMDS (Web Dissemination) software as outlined in R5.1.2, part 10, Installation

of EMDS.

AUTHORIZATION : The authority for this modification is NWS Request for Change AA485.

VERIFICATION STATEMENT

: These installation procedures were tested and verified at Silver Spring, MD (NMTW and NMTR), Central Region Headquarters (BCQ), Eastern Region Headquarters (VUY), Pacific Region Headquarters (PBP), RFC Wilmington, OH (TIR), WFO Indianapolis, IN (IND), WFO Milwaukee, WI (MKX), WFO Pittsburgh, PA (PBZ) and WFO Boulder, CO (BOU).

TIME REQUIRED : WFO installation time Part 1-11 (see Attachment B, Installation

> Instructions for AWIPS R.5.2.1) is approximately 8 hours, with 3 to 4 hours ingest down time. RFC installation time is approximately 8 hours,

with about 4 hours ingest down time.

SECURITY LEVEL : root

EFFECT ON OTHER:

INSTRUCTIONS

None.

TECHNICAL

For questions or problems regarding the upgrade, call the NCF at

(301) 713-9344. SUPPORT

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GENERAL:

The R5.2.1 installation upgrade kit includes: installation instructions, 3 CDs for WFOs, 3 CDs for RFCs, release notes, and script log output (with error information). The length of ingest downtime requires sites to perform service backup. R5.2.1 localization/customization problems will be similar to those experienced in the R5.1.2 upgrade.

NOTE: 1. Pre-installation requirements:

- a. R5.1.2.3 **must** be installed prior to installing R5.2.1.
- b. CONUS and OCONUS WFOs and offices with WFO type systems **must** install R5.1.2 IFPS before installing R5.2.1.
- c. All sites **must** install EMDS (Web Dissemination) software as outlined in R5.1.2, part 10.
- d. LINUX Workstation Upgrade Part 9 (see attachment B, Installation Instructions for AWIPS R.5.2.1) should only be performed if:
 - (1) Red Hat 7.1 is running on the LINUX system.
 - (2) the workstations are assigned as lx1 or lx2.
- 2. All sites with WFO type AWIPS systems **not** participating in the Rapid Alpha Process (RAP), should wait until Maintenance Release 5.2.1.1 is available before proceeding with the 5.2.1 installation. A critical bug in the wwa_inject program cuts off the last segment of zones. This will be corrected in 5.2.1.1.
- Sites must coordinate the R5.2.1 installation with their regional or NCEP Center AWIPS focal point. COMT, the Training Center, systems at WSH, and the OSF should schedule their upgrade with Frank Lucadamo at WSH or schedule themselves using the calendar feature on Netscape set aside for AWIPS software upgrades.
- 4. Adhere to the guidelines outlined below.
- 5. AWIPS regional focal points **must** coordinate the R5.2.1 installation using the Netscape calendar set aside for AWIPS software upgrades:

http://calendar.netscape.com

NOTE: AWIPS remote displays (ARD) cannot be logged into AWIPS during this install. Sites must coordinate with their CWSUs before initiating the R5.2.1 upgrade. As noted above, the R5.2.1 upgrade must be coordinated with the appropriate personnel. Avoid the following scenarios:

- Sites and their backups **must not** perform simultaneous software upgrades.
- Weather wire uplink sites and their backups must not perform simultaneous software upgrades.

General installation guidelines:

- NCF/NGIT upgrade support is available from 7AM to 7PM EDT, Monday through Thursday.
 - S OCONUS sites requiring upgrade assistance outside the set support hours on Thursdays, must coordinate through their AWIPS regional focal point. If the NCF/NGIT is not advised ahead of time, they will assume a scheduled OCONUS site will follow the set support hours.
- A maximum number of five sites per day will be upgraded in the AWIPS time-frame noted above.
- All R5.2.1 upgrades shall be completed by the middle of August 2002.

Review these instructions before performing the upgrade. It is important to do Part 0, Preinstallation Requirements (see Attachment B, Installation Instructions for AWIPS R.5.2.1), several days to a week before the upgrade. If any of these instructions require further clarification, call the NCF.

REPORTING MODIFICATION

Report the completed modification on a WS Form A-26, Maintenance Record, according to the instructions in Engineering Handbook 4 (EHB-4), Engineering Management Reporting System (EMRS), Part 2, and Appendix I. A sample WS Form A-26 is attached. As an additional guide, use the information in the table below.

Block #	Block Type	Information						
5	Description	Upgrade AWIPS Software to R5.2.1 I.A.W. AWIPS Software Installation Instruction Note 29						
7	Equipment Code	AWIPS						
8	Serial Number	001						
15	Comments	Upgraded AWIPS System Software to R5.2.1 I.A.W. AWIPS Software Installation Instruction Note 29						
17a	Mod. No.	S29						

Mark Paese

Mak S. Paul

Acting Chief, Maintenance, Logistics, and Acquisition Division

Attachment A - WS Form A-26 Sample

Attachment B - Installation Instructions for AWIPS R5.2.1, Sample Output, and Release Notes.

Attachment A
WS Form A-26 Sample

Attachment A

,	WS FORM A -26 (4/94)		WS FORM A-26 (4/94) NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE ENGINEERING MANAGEMENT REPORTING SYSTEM MAINTENANCE RECORD										Document Number G 49978				
deneral			1. Open Date 5/ 31/	02	Time 0900	2. Initials JMN		3. Response O Imme	diate	•	c one) Low Not Applic	able	4. Cl		31 / 02	Time 1700	
5. Description Install AWIPS software version 5.2.1 I.A.W. AWIPS Software Installation Instruction Note 29																	
= q = - p = - c = - c			6. Station ID RLX	7. Equipment Code AWIPS			8. Serial Number 001				9. TM M			10. AT M		11. How Mal. 999	
OP	1 2. EQUIPMENT OPERATIONAL STATUS TIMES a. Fully Operational b. Logistics Delay Partly Operational c. All Other d. Logistics Delay Not Operational								tional e	. All Other							
13. Parts Failure Information Information																	
Block #	а.	ASN			b.	NSN			T M	d. AT	e. How Mal.	f. Qty.	g. Maint Hrs.		Туре	Staff Hrs.	
1															a. Routine		
2														b. Non-routine			
3														c. Travel			
4														4	d. Misc.	8:00	
5		_													e. Overtime		
N	Miscellaneo	us	15. Maintenance Comments Upgraded AWIPS software to R5.2.1 I.A.W. AWIPS Software													16. Initials	
	Informatio	n													JMM		
17. SPECIAL PURPOSE REPORTING a. Mod. No. S29			5/31/				d.	d.				е.					
18. CONFIGURATION MGMT. REPORTING (use as directed) ASN			•		Vendor Part Number (New Part) Serial Number (Old Part)					5	Serial Number (New Part)						

Attachment B

Installation Instructions for AWIPS Release 5.2.1